

# APPARATUS FOR AND METHOD OF EVENLY DISTRIBUTING AN ELECTRICAL LOAD ACROSS A THREE-PHASE POWER DISTRIBUTION NETWORK

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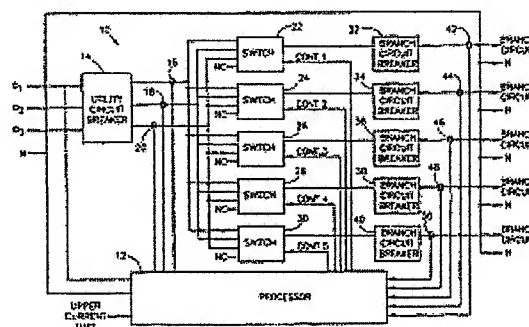
Cited documents:

US5477091  
US5191520  
US5182464  
US4659942  
US3991359

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## Abstract of WO9637940

An apparatus for and method of evenly distributing an electrical load (BRANCH CIRCUIT 1-5) across a three-phase power distribution network. The current in each incoming phase and in each branch circuit is measured by a plurality of current sensors (16-20 and 42-50). The output of the current sensors (16-20 and 42-50) are monitored by a processor (12). Associated with each branch circuit (BRANCH CIRCUIT 1-5) is a multi-pole switch (22-30) and a conventional circuit breaker (14). Each switch (22-30) is able to connect its corresponding branch circuit (BRANCH CIRCUIT 1-5) to any incoming phase or to disconnect the branch circuit (BRANCH CIRCUIT 1-5) from all three phases. The processor (12) periodically monitors the current flowing through each incoming phase and based on branch circuit load conditions, reprograms the switches (22-30) to keep the branch circuit loads (BRANCH CIRCUIT 1-5) evenly distributed across all three incoming phases. In another embodiment, a summing circuit (52) combines the current capacities of all three incoming phases into a single summed output. This output is subsequently rectified (54) and used to generate (56) a single phase AC voltage which feeds all branch circuits (BRANCH CIRCUIT 1-5) in the system.



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